

Please find below and/or attached an Office communication concerning this application or proceeding.

Docketed By Practice Systems
Action Code: Respect Reg.
Base Date: 1-22-04
Due Date: 2-22-04
Deadline: 7-22-04
Initials: Proceedings

Docketed By Billing Secretary
Due Date: ਪ੍ਰਤਮ੍ਹਮ Deadline: 기>ਮ੍ਰਮ Initials: ਪੁਲਿਟ ਕ੍ਰੀਪ੍ਰਪ੍ਰ

•	01	PE			
·	•	402	Application No.	Applicant(s)	
	دا	1 8 2005	10/209,183	ZHANG ET AL.	
	Office Action Summary	A E	Examiner	Art Unit	
	TATAL.	DEMPHO	D. L. Jones	1616	
Period fo	The MAILING DATE of this commun	ication app	ears on the cover shee	et with the correspondence ac	ddress
A SH THE - Exte after - If the - If NC - Failu - Any	IORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm to period for reply specified above is less than thirty (3) Deriod for reply is specified above, the maximum state to reply within the set or extended period for reply treply received by the Office later than three months a ted patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.13 nunication. 0) days, a reply atutory period wi will, by statute.	6(a). In no event, however, ma within the statutory minimum o Il apply and will expire SIX (6) cause the application to become	ay a reply be timely filed f thirty (30) days will be considered timel MONTHS from the mailing date of this c	ly. ∞mmunication.
1)	Responsive to communication(s) file	d on			
2a)□			ction is non-final.		
•	Since this application is in condition closed in accordance with the practic	for allowand	ce except for formal n	natters, prosecution as to the C.D. 11, 453 O.G. 213	e merits is
Dispositi	on of Claims			, , , , , , , , , , , , , , , , , , , ,	
4)⊠	Claim(s) 1-77 is/are pending in the a	pplication.			
	4a) Of the above claim(s) is/ar	• •	n from consideration.		•
	Claim(s) is/are allowed.				
6)[Claim(s) is/are rejected.				
	Claim(s) is/are objected to.				
8)⊠	Claim(s) <u>1-77</u> are subject to restriction	n and/or ele	ection requirement.		
Applicati	on Papers				
9)[] -	The specification is objected to by the	Examiner.			•
10) 🔲 🧻	The drawing(s) filed on is/are:	а) ассер	ted or b) objected	to by the Examiner.	
	Applicant may not request that any object			, ,	
	Replacement drawing sheet(s) including t				
	The oath or declaration is objected to	by the Exar	niner. Note the attach	ned Office Action or form PT	O-152.
	nder 35 U.S.C. §§ 119 and 120				
12) 🔲	Acknowledgment is made of a claim f ☐ All b)	or foreign p	riority under 35 U.S.C	C. § 119(a)-(d) or (f).	
	1.☐ Certified copies of the priority d	ocuments h	ave been received		
	Certified copies of the priority d	ocuments h	ave been received in	Application No.	
;	Copies of the certified copies of	f the priority	documents have been	en received in this National S	Stage
* Se	application from the Internation ee the attached detailed Office action	al Bureau (I for a list of	C1 Rule 17.2(a)).	ot received	
13)∐ Ad	knowledgment is made of a claim for	domestic p	riority under 35 U.S.(C. § 119(e) (to a provisional.	application)
sir	ice a specific reference was included	in the first s	entence of the specif	ication or in an Application [Data Sheet.
	CFR 1.78. ☐ The translation of the foreign lang	uage provis	ional application has	heen received	
14)∐ Ad	knowledgment is made of a claim for	domestic p	riority under 35 U.S.(C. §§ 120 and/or 121 since a	specific
ref	erence was included in the first sente	nce of the s	pecification or in an	Application Data Sheet. 37 C	FR 1.78.
ttachment(s)				
) Notice	of References Cited (PTO-892)		4) T Interview	v Summary (PTO-413) Paper No(s)	\
	of Draftsperson's Patent Drawing Review (PTC		5) L Notice o	f Informal Patent Application (PTO-	152)
i) 🔛 Informa	ation Disclosure Statement(s) (PTO-1449) Pap	er No(s)	6) Other:	. •	
Patent and Trac OL-326 (Rev		Office Action	n Summarv	Part of Paper No	01162004
			•	· art or raper No	7. UTTUZUU4

RESTRICTION INTO GROUPS

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

(1). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(2). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(3). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(4). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

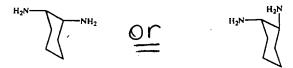
as set forth in claim 2, classified in class 424, subclass 9.3.

(5). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

$$H_{2N}$$
 N
 N
 N
 N

as set forth in claim 2, classified in class 424, subclass 9.3.

(6). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety



as set forth in claim 2, classified in class 424, subclass 9.3.

(7). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety



as set forth in claim 2, classified in class 424, subclass 9.3.

(8). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(9). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(10). Claims 1-23, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 2, classified in class 424, subclass 9.3.

(11). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(12). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 22, classified in class 424, subclass 9.3.

(13). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(14). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(15). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

H₂N N 1.G

as set forth in claim 24, classified in class 424, subclass 9.3.

(16). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

0 N N LG

as set forth in claim 24, classified in class 424, subclass 9.3.

(17). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(18). Claims 1, 3-24, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 24, classified in class 424, subclass 9.3.

(19). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 25, classified in class 424, subclass 9.3.

(20). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

H₂N LG

as set forth in claim 25, classified in class 424, subclass 9.3.

(21). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 25, classified in class 424, subclass 9.3.

(22). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

$$R$$
 R
 $I.G$

as set forth in claim 25, classified in class 424, subclass 9.3.

(23). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 25, classified in class 424, subclass 9.3.

(24). Claims 1, 3-23, 25, 27-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 25, classified in class 424, subclass 9.3.

(25). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(26). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(27). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(28). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(29). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(30). Claims 1, 3-23, 26-33, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 26, classified in class 424, subclass 9.3.

(31). Claims 34-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 35, classified in class 424, subclass 9.3.

(32). Claims 34-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 35, classified in class 424, subclass 9.3.

(33). Claims 34-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 35, classified in class 424, subclass 9.3.

(34). Claims 34-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety

as set forth in claim 35, classified in class 424, subclass 9.3.

- (35). Claims 46-55, drawn to a contrast agent comprising a metal chelate complexed at a –CO2R and NHR termini of a biopolymer, wherein R is independently selected from the group consisting of hydrogen, alkyl, aliphatic, or a leaving group as set forth in independent claim 46, classified in class 424, subclass 9.3.
- (36). Claim 66 is, drawn to a modified peptide

as set forth in claim 66, classified in class 424, subclass 9.3.

(37). Claim 67 is, drawn to a modified peptide

$$(Linker)_{p} \cdot (Linker-subunit)_{s} = \begin{bmatrix} R^{2} & O \\ N & \\ R^{1} & \\ \end{bmatrix}_{a} \cdot (Linker-subunit)_{s} \cdot (Linker)_{p}$$

as set forth in claim 67, classified in class 424, subclass 9.3.

(38). Claims 34, 36-45, 56-65, and 68-77, drawn to a method of making an MRI agent using a peptide and the linker-subunit moiety not encompassed in Groups (1) – (33) above, classified in class 424, subclass 9.3.

Note: Claims appearing in more than one group will only be examined to the extent that they read on the elected invention.

2. The inventions are distinct, each from the other because of the following reasons:

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Inventions (1)-(38) are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the different inventions (Groups (1) – (34) and (38) are directed to methods of making an MRI agent wherein the linker-subunits for making the agents are structurally different. Thus, prior art anticipating or rendering one linker-subunit-peptide combination group would neither anticipate nor render obvious another group. Hence, there is no common core present in the linker-subunit core. As a result, the inventions are distinct. Likewise, the modified peptide groups, Groups (35) - (37), are unrelated because one is directed to a peptide structure having a chelate thereto and the other modified lacks the present chelate attachment. Thus, they are structurally different and distinct inventions. Furthermore, it should be noted that for each group above, a separate search of the prior art is required in order to determine if the inventions are distinguished over the prior art.

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

ELECTION OF SPECIES

4. Claims 1-77 are generic to a plurality of disclosed patentably distinct species comprising peptide based targeting agents. In particular, the targeting agents may comprise a multitude of linker-subunits as set forth in claims 2, 24-26, and 35 or a modified peptide structure as set forth in claims 46, 66, and 67. Applicant is required under 35 U.S.C. 121 to *elect a single disclosed species* for search purposes, even though this requirement is traversed.

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<u>Note</u>: The Examiner respectfully requests that Applicant elect a species from within the elected group. Applicant should identify the components of the peptide-linker-subunit combination and all the variables associated with the component. For example, if Group XXXVII is elected, Applicant should identify the linker-subunit, linker moiety (define linker variables, if necessary, i.e., R' = H), precursor chelate moiety (identify variables), and covalent conjugate (identify variables thereof). In addition, Applicant is respectfully requested to state which claims are drawn to the elected species.

- 5. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.
- 6. Due to the complexity of the restriction requirement, a telephone call was not made to request an oral election to the above restriction requirement.
- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

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application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. L. Jones whose telephone number is (703) 308-4640. The examiner can normally be reached on Mon.-Fri., 6:45 a.m. - 3:15 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on (703) 308 - 2927. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Note: After February 2, 2004, the Examiner may be reached at (571) 272-0617 and the Examiner's supervisor at (571) 272-0602.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

D. L. Jones/
Primary Examiner
Art Unit 1616

January 16, 2004